

### **Meeting Agenda**

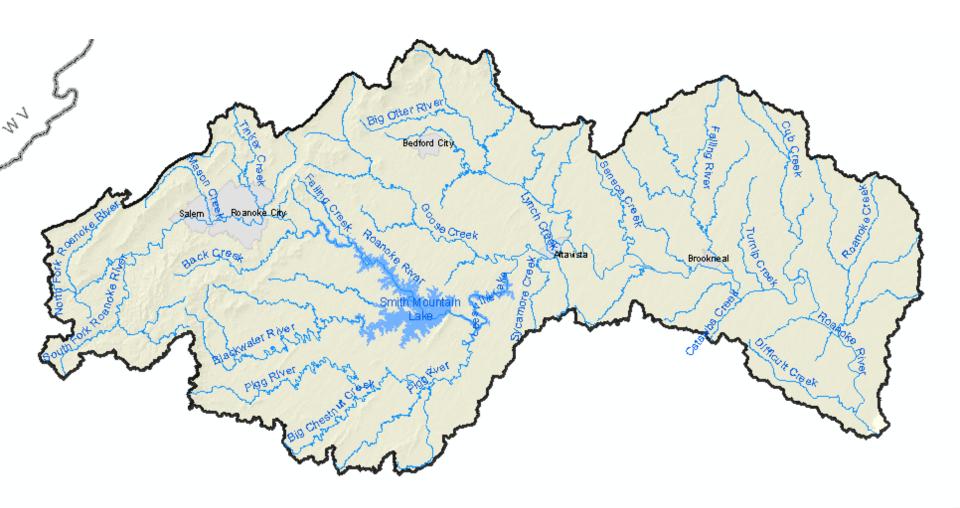
**Welcome and Introductions** 

Upper Roanoke River PCB Study Background......Mary Dail, DEQ

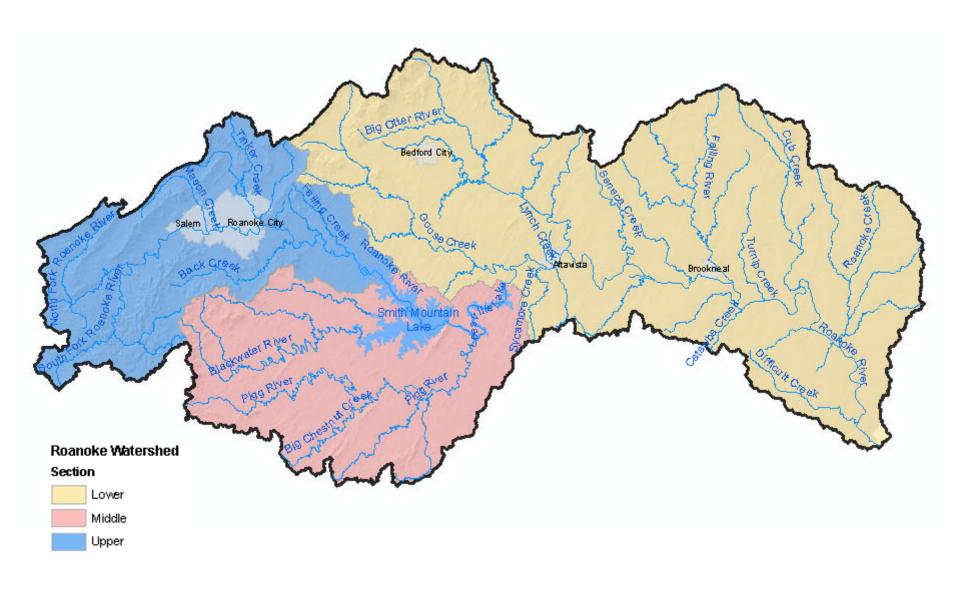
PCB Source Investigation.......Mark Richards, DEQ

**PCB Model Approach and Results**......Clint Boschen and Nikolai Gurdian, Tetra Tech, Inc.

#### **Roanoke River Basin**



## **PCB TMDL Study Areas**



# **Upper Roanoke River PCB Impairments**

- Virginia Department of Health (VDH) issued a 'Health Advisory' for consumption of fish due to PCB contamination in fish tissue.
- Area of concern: Upper Roanoke River (~37 miles) from the confluence of North and South Fork Roanoke River near Gaging Station at Lafayette downstream to Niagara Dam
  - Includes tributaries: Peters Creek up to Rt. 460 bridge crossing and Tinker Creek up to the confluence with Deer Branch Creek near Rt. 115
- Fish Advisory states:

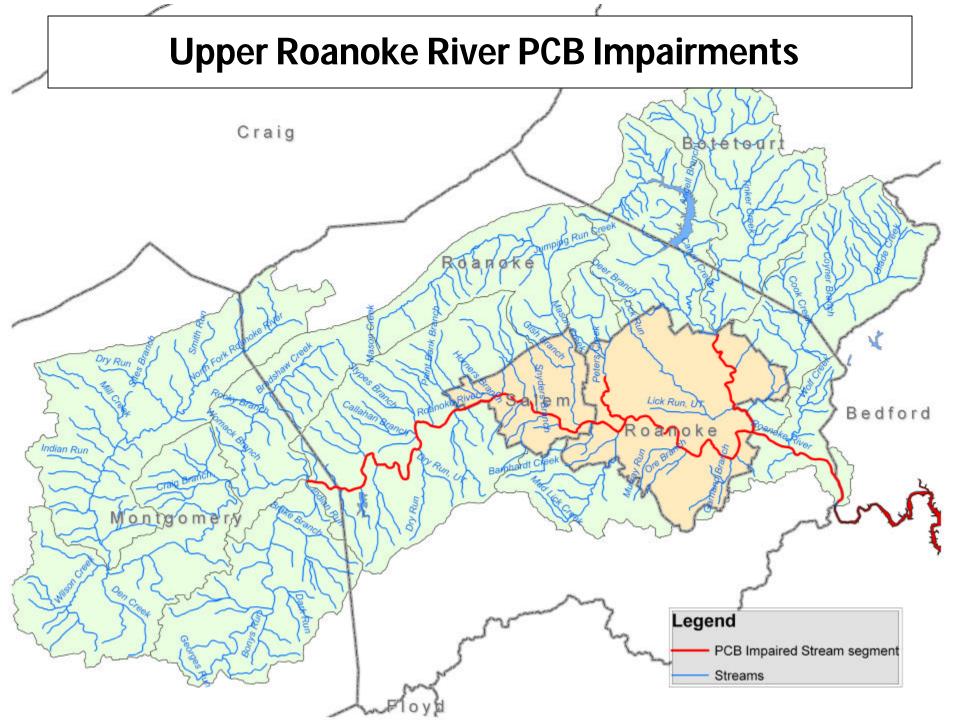
No more than 2 meals per month of the following fish species: Carp, Redbreast Sunfish, Redhorse Sucker species, Smallmouth Bass, Largemouth Bass, Rock Bass, Bluehead Chub

• Initial 303d Listing in 1998





Photos from Virginia Tech's Virtual Aquarium: http://www.cnr.vt.edu/efish/



#### What is a TMDL?

- TMDL = Total Maximum Daily Load = Special Study
  - Amount of pollution a stream can receive and still meet Water Quality Standards
- A TMDL study identifies all sources of pollution
  - Point source pollution is discharged from a discrete location such as a pipe, tank, pit, or ditch
  - Non-point source pollution originates from diffuse areas (land surface or atmosphere) having no welldefined source
- Calculate the pollutant loading entering the stream from each source, then calculate the reductions needed from each source to attain water quality standards
- EPA initiated the TMDL and contracted Tetra Tech, Inc.